

SEQUENCE LISTING

<110> BASF Aktiengesellschaft

<120> GTP-Cyclohydrolase II as a target for fungicides

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<170> PatentIn Ver. 2.1

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<211> 903

<212> DNA

<213> Ashbya gossipii

<220>

<221> CDS

<222> (1)..(903)

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Ile	Pro	Thr	Val	Gln	Gly	Thr	Asp	Val	Phe	Leu	His	Leu	Tyr	His	Asn	
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tcg	atc	gac	agc	aag	gaa	cac	cta	gcg	att	gtc	ttc	ggc	gag	aac	ata	144
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cgc	tcg	cgg	agt	ctg	ttc	cgg	tac	cgg	aaa	gac	gac	acg	cag	cag	gcg	192
Arg	Ser	Arg	Ser	Leu	Phe	Arg	Tyr	Arg	Lys	Asp	Asp	Thr	Gln	Gln	Ala	
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gag	gca	gac	gcg	gat	cgg	cgt	cag	ggc	ctg	gag	ctg	cgg	ttt	gat	gag	288
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aca	ggg	cag	ctg	gtg	gtg	gag	cgg	gcg	acg	acg	tgg	acc	agg	gag	ccg	336
Thr	Gly	Gln	Leu	Val	Val	Glu	Arg	Ala	Thr	Thr	Trp	Thr	Arg	Glu	Pro	
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aca	ctg	gtg	cgg	ctg	cac	tcg	gag	tgt	tac	acg	ggc	gag	acg	gcg	tgg	384
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 Val Ile Val Tyr Leu Arg Gln Glu Gly Arg Gly Ile Gly Leu Gly Glu
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gcg aac gag ctg ctc aac cac cct gcg gac gcg cgc gac ttc tcg ttg 624
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<212> PRT

<213> Ashbya gossipii

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<213> Ashbya gossipii

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<211> 582

<212> DNA

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Lys Glu His Leu Ala Ile Val Phe Gly Lys Asn Ile Arg Ser Lys Ser	
35 40 45	
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Leu Asp Ala Val Arg Glu Gly Glu Thr Glu Met Asp Arg Met Val Arg	
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ggc gca tac aca gga agg ctg ttc ccc ggt cgc aca acc agt ggc atc	240
Gly Ala Tyr Thr Gly Arg Leu Phe Pro Gly Arg Thr Thr Ser Gly Ile	
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ggt cca gcg acc cct cag gag gaa cag cca ccg cag ccg tcg gat gag	288
Gly Pro Ala Thr Pro Gln Glu Glu Gln Pro Pro Gln Pro Ser Asp Glu	
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Trp Ser Ala Arg Cys Asp Cys Gly Glu Gln Leu Asp Glu Ala Ala Arg	
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ctg atg agt ctg cca ggc aac aag gcc ggc ggc atc atc atc tac ctg	432
Leu Met Ser Leu Pro Gly Asn Lys Ala Gly Gly Ile Ile Ile Tyr Leu	
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cgc cat cct gcc gat gct cga agc tac ggt ctt gct acc gct atg ctg	576
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Lys Glu His Leu Ala Ile Val Phe Gly Lys Asn Ile Arg Ser Lys Ser

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40

45

Leu Asp Ala Val Arg Glu Gly Glu Thr Glu Met Asp Arg Met Val Arg

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55

60

Gly Ala Tyr Thr Gly Arg Leu Phe Pro Gly Arg Thr Thr Ser Gly Ile

65

70

75

80

Gly Pro Ala Thr Pro Gln Glu Glu Gln Pro Pro Gln Pro Ser Asp Glu

85

90

95

Pro Pro Leu Val Arg Ile His Ser Glu Cys Tyr Thr Gly Glu Thr Ala

100

105

110

Trp Ser Ala Arg Cys Asp Cys Gly Glu Gln Leu Asp Glu Ala Ala Arg

115

120

125

Leu Met Ser Leu Pro Gly Asn Lys Ala Gly Gly Ile Ile Ile Tyr Leu

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135

140

Arg Gln Glu Gly Arg Gly Ile Gly Leu Gly Glu Lys Leu Lys Ala Tyr

145

150

155

160

Asn Leu Gln Asp Leu Gly Ser Asp Thr Val Glu Ala Asn Leu Leu Leu

165

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Leu Asp